

CLAIMS

1. A gas turbine, in particular for an airplane engine, the turbine comprising a wheel mounted to rotate in a casing (14, 16) and carrying blades (10) whose tips are
5 at a small radial distance from an inside surface of the casing, and means for reducing clearance between the tips of the blades and the inside surface of the casing, the turbine being characterized in that the means for reducing clearance comprise stubs (26) mounted in
10 radially slidable manner to the tips of the blades (10) and guided in an annular groove (34) of the casing (14, 16).
2. A gas turbine according to claim 1, characterized in
15 that the stubs (26) are made of a material that is lightweight and withstands wear and high temperatures.
3. A gas turbine according to claim 1 or claim 2, characterized in that the stubs (26) are made of ceramic.
20
4. A gas turbine according to any preceding claim, characterized in that the stubs (26) include radially outer portions (30) in the form of curved plates for extending along the inside surface of the casing.
25
5. A gas turbine according to claim 4, characterized in that the radially outer portions (30) in the form of plates of the stubs (26) include stiffening reinforcements.
30
6. A gas turbine according to any preceding claim, characterized in that each stub includes parallel circumferential ribs (32) forming wipers on its face facing towards the inside face of the casing.
35
7. A gas turbine according to any preceding claim, characterized in that the inside surface of the casing

facing the stubs (26) includes a layer (18) of abradable material.

8. A gas turbine according to any preceding claim,
5 characterized in that the stubs (26) are fitted onto the tips of the blades (10).

9. A gas turbine, in particular according to any one of
claims 1 to 7, characterized in that the stubs (26) are
10 inserted at least in part in bathtubs (20) formed at the tips of the blades (10).

10. A gas turbine according to claim 9, characterized in
that the stubs (26) co-operate with the walls (36) of the
15 bathtub (20) to define cooling air flow passages which are fed by channels that open out into the bottoms of the bathtubs.

11. A gas turbine according to any preceding claim,
20 characterized in that it includes means (20, 34, 38) for holding the stubs (26) axially and radially on the tips of the blades (10).

12. A gas turbine according to any preceding claim,
25 characterized in that, for assembly purposes, the stubs (26) are held on the tips of the blades by adhesive or by a tie surrounding the blades.

13. A gas turbine according to any preceding claim,
30 characterized in that the inside surface of the casing facing the stubs (26) is cylindrical, being divergent or of constant section.